

Analysis of "table1 (slmb primer cyt L)" a 20-mer DNA Oligonucleotide (Sense)

5' CAA CCT CAT CTG TCG TAA AC 3'

Oligonucleotide Analysis

| Polynucleotide Analysis | |
|------------------------------|-----------------|
| Molecular weight | 6101.0 |
| T _m thermodynamic | 56.4 degrees C |
| Filter T _m | 48.8 degrees C |
| % GC T _m | 66.2 degrees C |
| AT+GC T _m | 58.0 degrees C |
| Absorbance | 5.3 nMol/A260 |
| Absorbance | 32.5 ug/A260 |
| Percent GC | 45.0 % |
| Delta G | -28.7 kCal/Mol |
| Delta H | -140.6 kCal/Mol |
| Delta S | -368.0 eu |
| 3' End Delta G | -5.9 kCal/Mol |

Analysis Parameters

| analysis parameters | |
|--------------------------|----------------|
| Delta G Temperature | 25.0 degrees C |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| Secondary analysis summary | |
|----------------------------|---------------------|
| Number of base runs | / palindromes |
| Number of hairpin loops | 0 / 0 |
| Number of dimers | / 2-oligo dimers |
| Number of bulge loops | / 2-oligo bulges |
| Number of internal loops | / 2-oligo internals |

Analysis of "table 2 (slmb primer cyt H)" a 20-mer DNA Oligonucleotide (Antisense)

| | | | | | |
|----|-----|-----|-----|-----|-----|
| 5' | GCT | CGG | GCT | CGG | CGG |
|----|-----|-----|-----|-----|-----|

5' GCT CGG GCT GCT GGA ATC TT 3'

Oligonucleotide Analysis

| Oligonucleotide Analysis | | Analysis Parameters | |
|--------------------------|-----------------|--------------------------|----------------|
| Molecular weight | 6220.1 | Delta G Temperature | 25.0 degrees C |
| Tm thermodynamic | 70.8 degrees | Probe concentration | 0.6 pMol |
| Filter Tm | 63.2 degrees | Salt concentration | 1000.0 mMol |
| % GC Tm | 72.3 degrees | Formamide concentration | 0.0 % |
| AT+GC Tm | 64.0 degrees | 3' End length | 7 bases |
| Absorbance | 5.6 nMol/A260 | Run length | 4 bases |
| Absorbance | 34.8 ug/A260 | Palindrome length | 8 bases |
| Percent GC | 60.0 % | Hairpin loop stem length | 3 bases |
| Delta G | -37.5 kCal/Mol | | |
| Delta H | -164.6 kCal/Mol | | |
| Delta S | -419.9 eu | | |
| 3' End Delta G | -5.1 kCal/Mol | | |

| Structural Analysis Summary | | |
|-----------------------------|---|-------------------|
| Number of base runs | / | palindromes |
| Number of hairpin loops | | |
| Number of dimers | / | 2-oligo dimers |
| Number of bulge loops | / | 2-oligo bulges |
| Number of internal loops | / | 2-oligo internals |
| | | 0 / 0 |
| | | 0 / 0 |
| | | 0 / 0 |
| | | 0 / 0 |
| | | 0 / 0 |

Analysis of "table 3 (slmb primer ITS2 F)" a 20-mer DNA Oligonucleotide (Sense)

5' ACT TGA CTG ACC TTC TTA CT 3'

Oligonucleotide Analysis

| | | | | |
|------------------|-----------------|---------------------|--------------------------|----------------|
| Molecular weight | 6098.0 | Analysis Parameters | Delta G Temperature | 25.0 degrees C |
| Tm thermodynamic | 51.3 degrees C | | Probe concentration | 0.6 pMol |
| Filter Tm | 43.7 degrees C | | Salt concentration | 1000.0 mMol |
| % GC Tm | 64.2 degrees C | | Formamide concentration | 0.0 % |
| AT+GC Tm | 56.0 degrees C | | 3' End length | 7 bases |
| Absorbance | 5.6 nMol/A260 | | Run length | 4 bases |
| Absorbance | 34.0 ug/A260 | | Palindrome length | 8 bases |
| Percent GC | 40.0 % | | Hairpin loop stem length | 3 bases |
| Delta G | -26.5 kCal/Mol | | | |
| Delta H | -137.7 kCal/Mol | | | |
| Delta S | -365.8 eu | | | |
| 3' End Delta G | -3.9 kCal/Mol | | | |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

Analysis of "table 4 (slmb primer ITS2-H)" a 24-mer DNA Oligonucleotide (Antisense)

5' ATA CTC TGC GGA CAT ACT TGA CTG 3'

Oligonucleotide Analysis

| | |
|------------------|-----------------|
| Molecular weight | 7407.9 |
| Tm thermodynamic | 65.4 degrees C |
| Filter Tm | 57.8 degrees C |
| % GC Tm | 72.2 degrees C |
| AT+GC Tm | 70.0 degrees C |
| Absorbance | 4.4 nMol/A260 |
| Absorbance | 32.4 ug/A260 |
| Percent GC | 45.8 % |
| Delta G | -35.5 kCal/Mol |
| Delta H | -169.5 kCal/Mol |
| Delta S | -442.0 eu |
| 3' End Delta G | -5.2 kCal/Mol |

Analysis Parameters

| | |
|--------------------------|----------------|
| Delta G Temperature | 25.0 degrees C |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | 2-oligo internals | 0 / 0 |

Analysis of "table 5 (slmb primer pro-L) " a 24-mer DNA Oligonucleotide (Sense)

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| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| CAG | TCT | CGT | CAA | ACC | AAG | TCA | AAC |
|-----|-----|-----|-----|-----|-----|-----|-----|

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| Oligonucleotide Analysis | |
|------------------------------|-----------------|
| Molecular weight | 7354.9 |
| T _m thermodynamic | 67.8 degrees C |
| Filter T _m | 60.2 degrees C |
| % GC T _m | 72.2 degrees C |
| AT+GC T _m | 70.0 degrees C |
| Absorbance | 4.3 nMol/A260 |
| Absorbance | 31.4 ug/A260 |
| Percent GC | 45.8 % |
| Delta G | -36.5 kCal/Mol |
| Delta H | -169.9 kCal/Mol |
| Delta S | -439.7 eu |
| 3' End Delta G | -4.9 kCal/Mol |

| Analysis Parameters | |
|--------------------------|--------------|
| Delta G Temperature | 25.0 degrees |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| | Number of base runs | / | palindromes | |
|--|--------------------------|---|-------------------|-------|
| | Number of hairpin loops | | | 0 / 0 |
| | Number of dimers | / | 2-oligo dimers | 0 / 0 |
| | Number of bulge loops | / | 2-oligo bulges | 0 / 0 |
| | Number of internal loops | / | 2-oligo internals | 0 / 0 |

Analysis of "table 6 (slmb primer Dloop-H)" a 23-mer DNA Oligonucleotide (Antisense)

5' ATA ATC ATC CAG CAT AAA CAC AC 3'

| Oligonucleotide Analysis | | Analysis Parameters | |
|--------------------------|-----------------|--------------------------|----------------|
| Molecular weight | 7033.7 | Delta G Temperature | 25.0 degrees C |
| Tm thermodynamic | | Probe concentration | 0.6 pMol |
| Filter Tm | 61.2 degrees C | Salt concentration | 1000.0 mMol |
| % GC Tm | 53.6 degrees C | Formamide concentration | 0.0 % |
| AT+GC Tm | 66.4 degrees C | 3' End length | 7 bases |
| Absorbance | 62.0 degrees C | Run length | 4 bases |
| Absorbance | 4.3 nMol/A260 | Palindrome length | 8 bases |
| Percent GC | 30.0 ug/A260 | Hairpin loop stem length | 3 bases |
| Delta G | 34.8 % | | |
| Delta H | -32.9 kCal/Mol | | |
| Delta S | -163.3 kCal/Mol | | |
| 3' End Delta G | -429.7 eu | | |
| | -4.6 kCal/Mol | | |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

Analysis of "table 7 (slmb primer ROD-L)" a 20-mer DNA Oligonucleotide (Sense)

5' CCT GGT AGA GTT CGC CGT CA 3'

Oligonucleotide Analysis

Molecular weight 6189.0
 Tm thermodynamic 67.4 degrees C
 Filter Tm 59.8 degrees C
 % GC Tm 72.3 degrees C
 AT+GC Tm 64.0 degrees C
 Absorbance 5.3 nMol/A260
 Absorbance 33.0 ug/A260
 Percent GC 60.0 %
 Delta G -34.7 kCal/Mol
 Delta H -154.3 kCal/Mol
 Delta S -394.4 eu
 3' End Delta G -9.6 kCal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C
 Probe concentration 0.6 pMol
 Salt concentration 1000.0 mMol
 Formamide concentration 0.0 %
 3' End length 7 bases
 Run length 4 bases
 Palindrome length 8 bases
 Hairpin loop stem length 3 bases

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | | | 0 |
| Number of dimers | / | 2-oligo dimers | 0 / 0 |
| Number of bulge loops | / | 2-oligo bulges | 0 / 0 |
| Number of internal loops | / | 2-oligo internals | 0 / 0 |

5' CAC CAG CCA AGT ATG TTT CTC 3'

Molecular weight
Tm thermodynamic

| | |
|------------------------------|-----------------|
| Molecular weight | 6421.2 |
| T _m thermodynamic | 61.5 degrees C |
| Filter T _m | 53.9 degrees C |
| % GC T _m | 68.9 degrees C |
| AT+GC T _m | 62.0 degrees C |
| Absorbance | 5.1 nMol/A260 |
| Absorbance | 33.0 ug/A260 |
| Percent GC | 47.6 % |
| Delta G | -31.9 kCal/Mol |
| Delta H | -152.3 kCal/Mol |
| Delta S | -396.4 eu |
| 3' End Delta G | -4.9 kCal/Mol |

Analysis Parameters

| Delta G Temperature | 25.0 degrees C |
|--------------------------|----------------|
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| Number of base runs | / | palindromes | 0 / 0 |
|--------------------------|---|-------------------|-------|
| Number of hairpin loops | | | 0 |
| Number of dimers | / | 2-oligo dimers | 0 / 0 |
| Number of bulge loops | / | 2-oligo bulges | 0 / 0 |
| Number of internal loops | / | 2-oligo internals | 0 / 0 |

Analysis of "table 10 (LRMB primer 16S-H)" a 18-mer DNA Oligonucleotide (Antisense)

5' TCG TAG TTC AGC AGT CAG 3'

| Oligonucleotide Analysis | | Analysis Parameters | |
|--------------------------|-----------------|--------------------------|----------------|
| Molecular weight | 5594.7 | Delta G Temperature | 25.0 degrees C |
| Tm thermodynamic | 51.2 degrees C | Probe concentration | 0.6 pMol |
| Filter Tm | 43.6 degrees C | Salt concentration | 1000.0 mMol |
| % GC Tm | 64.5 degrees C | Formamide concentration | 0.0 % |
| AT+GC Tm | 54.0 degrees C | 3' End length | 7 bases |
| Absorbance | 5.7 nMol/A260 | Run length | 4 bases |
| Absorbance | 31.8 ug/A260 | Palindrome length | 8 bases |
| Percent GC | 50.0 % | Hairpin loop stem length | 3 bases |
| Delta G | -25.3 kCal/Mol | | |
| Delta H | -123.0 kCal/Mol | | |
| Delta S | -320.5 eu | | |
| 3' End Delta G | -4.9 kCal/Mol | | |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

Analysis of "table 11 (LRMB primer 12S-L)" a 19-mer DNA Oligonucleotide (Sense)

5' CTA TTC GCC TCG CTC AGA C 3'

Oligonucleotide Analysis

| | | | |
|------------------|-----------------|--------------------------|--------------|
| Molecular weight | 5779.8 | Analysis Parameters | |
| Tm thermodynamic | 62.1 degrees C | Delta G Temperature | 25.0 degrees |
| Filter Tm | 54.5 degrees C | Probe concentration | 0.6 pMol |
| % GC Tm | 69.7 degrees C | Salt concentration | 1000.0 mMol |
| AT+GC Tm | 60.0 degrees C | Formamide concentration | 0.0 % |
| Absorbance | 6.0 nMol/A260 | 3' End length | 7 bases |
| Absorbance | 34.6 ug/A260 | Run length | 4 bases |
| Percent GC | 57.9 % | Palindrome length | 8 bases |
| Delta G | -31.8 kCal/Mol | Hairpin loop stem length | 3 bases |
| Delta H | -146.6 kCal/Mol | | |
| Delta S | -378.6 eu | | |
| 3' End Delta G | -4.6 kCal/Mol | | |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | | | 0 |
| Number of dimers | / | 2-oligo dimers | 0 / 0 |
| Number of bulge loops | / | 2-oligo bulges | 0 / 0 |
| Number of internal loops | / | 2-oligo internals | 0 / 0 |

Analysis of "table 12 (LRMB primer 12S-H)" a 23-mer DNA Oligonucleotide (Antisense)

5' GCC TCC ATC ATC CCT CAC CTT AC 3'

Oligonucleotide Analysis

Molecular weight 6895.5
 Tm thermodynamic 70.8 degrees C
 Filter Tm 63.2 degrees C
 % GC Tm 75.3 degrees C
 AT+GC Tm 72.0 degrees C
 Absorbance 5.1 nMol/A260
 Absorbance 34.9 ug/A260
 Percent GC 56.5 %
 Delta G -38.9 kCal/Mol
 Delta H -174.6 kCal/Mol
 Delta S -448.9 eu
 3' End Delta G -5.1 kCal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C
 Probe concentration 0.6 pMol
 Salt concentration 1000.0 mMol
 Formamide concentration 0.0 %
 3' End length 7 bases
 Run length 4 bases
 Palindrome length 8 bases
 Hairpin loop stem length 3 bases

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

Analysis of "table 13 (DTMB primer 16S-H)" a 20-mer DNA Oligonucleotide (Antisense)

5' CTC CGT CCG TCT CGC CTC TG 3'

Oligonucleotide Analysis

| | |
|------------------|-----------------|
| Molecular weight | 6052.0 |
| Tm thermodynamic | 71.7 degrees C |
| Filter Tm | 64.1 degrees C |
| % GC Tm | 76.4 degrees C |
| AT+GC Tm | 68.0 degrees C |
| Absorbance | 6.1 nMol/A260 |
| Absorbance | 37.2 ug/A260 |
| Percent GC | 70.0 % |
| Delta G | -37.1 kCal/Mol |
| Delta H | -157.8 kCal/Mol |
| Delta S | -398.9 eu |
| 3' End Delta G | -7.9 kCal/Mol |

Analysis Parameters

| | |
|--------------------------|--------------|
| Delta G Temperature | 25.0 degrees |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

Analysis of "table 14 (DTMB primer 16S-L)" a 22-mer DNA Oligonucleotide (Sense)

5' AAA TCC GCC CTT ATG TGT GTT C 3'

Oligonucleotide Analysis

Molecular weight 6756.4
 Tm thermodynamic 67.9 degrees C
 Filter Tm 60.3 degrees C
 % GC Tm 69.5 degrees C
 AT+GC Tm 64.0 degrees C
 Absorbance 4.9 nMol/A260
 Absorbance 33.3 ug/A260
 Percent GC 45.5 %
 Delta G -36.9 kcal/Mol
 Delta H -171.5 kcal/Mol
 Delta S -444.2 eu
 3' End Delta G -4.9 kcal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C
 Probe concentration 0.6 pMol
 Salt concentration 1000.0 mMol
 Formamide concentration 0.0 %
 3' End length 7 bases
 Run length 4 bases
 Palindrome length 8 bases
 Hairpin loop stem length 3 bases

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

Analysis of "table 15 (DTM primer 12S-H)" a 22-mer DNA Oligonucleotide (Antisense)

5' CAT CGG CTT GCT CTA TTC CTT G 3'

Oligonucleotide Analysis

| | |
|------------------|-----------------|
| Molecular weight | 6723.4 |
| Tm thermodynamic | 68.8 degrees C |
| Filter Tm | 61.2 degrees C |
| % GC Tm | 71.3 degrees C |
| AT+GC Tm | 66.0 degrees C |
| Absorbance | 5.3 nMol/A260 |
| Absorbance | 35.5 ug/A260 |
| Percent GC | 50.0 % |
| Delta G | -37.5 kCal/Mol |
| Delta H | -172.0 kCal/Mol |
| Delta S | -444.3 eu |
| 3' End Delta G | -7.0 kCal/Mol |

Analysis Parameters

| | |
|--------------------------|----------------|
| Delta G Temperature | 25.0 degrees C |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

5' TCT ATC GGC GGC GTA TCA C 3'

Oligonucleotide Analysis

| | |
|------------------|--|
| Molecular weight | |
| Tm thermodynamic | |
| Filter Tm | |
| & GC Tm | |
| AT+GC Tm | |
| Absorbance | |
| Absorbance | |
| Percent GC | |
| Delta G | |
| Delta H | |
| Delta S | |
| 3' End Delta G | |

Analysis Parameters

| Analysis Parameters | |
|--------------------------|--------------|
| Delta G Temperature | 25.0 degrees |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| Structural Analysis Summary | |
|-----------------------------|---------------------------|
| Number of base runs | / palindromes 0 / 0 |
| Number of hairpin loops | / 0 |
| Number of dimers | / 2-oligo dimers 0 / 0 |
| Number of bulge loops | / 2-oligo bulges 0 / 0 |
| Number of internal loops | / 2-oligo internals 0 / 0 |

Analysis of "table 17 (TCMB primer 16S-H)" a 21-mer DNA Oligonucleotide (Antisense)

5' GGC GAT TCT ACG GCA CGG GCG 3'

Oligonucleotide Analysis

Molecular weight 6568.3
 Tm thermodynamic 80.4 degrees C
 Filter Tm 72.8 degrees C
 % GC Tm 78.6 degrees C
 AT+GC Tm 72.0 degrees C
 Absorbance 5.1 nMol/A260
 Absorbance 33.3 ug/A260
 Percent GC 71.4 %
 Delta G -44.7 kCal/Mol
 Delta H -186.4 kCal/Mol
 Delta S -468.6 eu
 3' End Delta G -12.8 kCal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees
 Probe concentration 0.6 pMol
 Salt concentration 1000.0 mMol
 Formamide concentration 0.0 %
 3' End length 7 bases
 Run length 4 bases
 Palindrome length 8 bases
 Hairpin loop stem length 3 bases

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

5' AAA CTG GTC CTC TAT GTC A 3'

| Oligonucleotide Analysis | | Analysis Parameters | |
|--------------------------|-----------------|--------------------------|----------------|
| Molecular weight | 6758.5 | Delta G Temperature | 25.0 degrees C |
| Tm thermodynamic | 60.7 degrees C | Probe concentration | 0.6 pMol |
| Filter Tm | 53.1 degrees C | Salt concentration | 1000.0 mMol |
| % GC Tm | 67.6 degrees C | Formamide concentration | 0.0 % |
| AT+GC Tm | 62.0 degrees C | 3' End length | 7 bases |
| Absorbance | 4.7 nMol/A260 | Run length | 4 bases |
| Absorbance | 31.7 ug/A260 | Palindrome length | 8 bases |
| Percent GC | 40.9 % | Hairpin loop stem length | 3 bases |
| Delta G | -31.7 kCal/Mol | | |
| Delta H | -153.3 kCal/Mol | | |
| Delta S | -400.5 eu | | |
| 3' End Delta G | -4.1 kCal/Mol | | |

| Structural Analysis Summary | | |
|-----------------------------|---------------------|-------|
| Number of base runs | / palindromes | 0 / 0 |
| Number of hairpin loops | | 0 |
| Number of dimers | / 2-oligo dimers | 0 / 0 |
| Number of bulge loops | / 2-oligo bulges | 0 / 0 |
| Number of internal loops | / 2-oligo internals | 0 / 0 |

Analysis of "table 19 (TCMB primer 12S-H)" a 22-mer DNA Oligonucleotide (Antisense)

5' CCG ATT CAG CCA CGA TTC CCT C 3'

Oligonucleotide Analysis

| | |
|------------------|-----------------|
| Molecular weight | 6671.4 |
| Tm thermodynamic | 74.6 degrees C |
| Filter Tm | 67.0 degrees C |
| % GC Tm | 75.0 degrees C |
| AT+GC Tm | 70.0 degrees C |
| Absorbance | 5.1 nMol/A260 |
| Absorbance | 34.2 ug/A260 |
| Percent GC | 59.1 % |
| Delta G | -40.8 kcal/Mol |
| Delta H | -176.0 kcal/Mol |
| Delta S | -447.5 eu |
| 3' End Delta G | -7.9 kcal/Mol |

Analysis Parameters

| | |
|--------------------------|----------------|
| Delta G Temperature | 25.0 degrees C |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | | 0 / 0 |
| Number of dimers | / | 2-oligo dimers | 0 / 0 |
| Number of bulge loops | / | 2-oligo bulges | 0 / 0 |
| Number of internal loops | / | 2-oligo internals | 0 / 0 |

Analysis of "table 20 (TCMB primer 12S-L)" a 21-mer DNA Oligonucleotide (Sense)

5' CCT AAA GCC CAG ATA ACT ACA 3'

| Oligonucleotide Analysis | | Analysis Parameters | |
|--------------------------|-----------------|--------------------------|----------------|
| Molecular weight | 6432.3 | Delta G Temperature | 25.0 degrees C |
| Tm thermodynamic | 59.2 degrees C | Probe concentration | 0.6 pMol |
| Filter Tm | 51.6 degrees C | Salt concentration | 1000.0 mMol |
| % GC Tm | 66.9 degrees C | Formamide concentration | 0.0 % |
| AT+GC Tm | 60.0 degrees C | 3' End length | 7 bases |
| Absorbance | 4.8 nMol/A260 | Run length | 4 bases |
| Absorbance | 30.6 ug/A260 | Palindrome length | 8 bases |
| Percent GC | 42.9 % | Hairpin loop stem length | 3 bases |
| Delta G | -31.7 kCal/Mol | | |
| Delta H | -159.4 kCal/Mol | | |
| Delta S | -421.0 eu | | |
| 3' End Delta G | -3.9 kCal/Mol | | |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

5' CGT GTT CTG ATG ATG ATG TGC T 3'

| Oligonucleotide Analysis | | Analysis Parameters | |
|--------------------------|-----------------|--------------------------|----------------|
| Molecular weight | 6867.5 | Delta G Temperature | 25.0 degrees C |
| Tm thermodynamic | 64.7 degrees C | Probe concentration | 0.6 pMol |
| Filter Tm | 57.1 degrees C | Salt concentration | 1000.0 mMol |
| % GC Tm | 69.5 degrees C | Formamide concentration | 0.0 % |
| AT+GC Tm | 64.0 degrees C | 3' End length | 7 bases |
| Absorbance | 4.9 nMol/A260 | Run length | 4 bases |
| Absorbance | 33.4 ug/A260 | Palindromic length | 8 bases |
| Percent GC | 45.5 % | Hairpin loop stem length | 3 bases |
| Delta G | -33.0 kCal/Mol | | |
| Delta H | -150.2 kCal/Mol | | |
| Delta S | -385.9 eu | | |
| 3' End Delta G | -6.3 kCal/Mol | | |

| Structural Analysis Summary | | |
|-----------------------------|---|-------------------|
| Number of base runs | / | palindromes |
| Number of hairpin loops | | 0 / 0 |
| Number of dimers | / | 2-oligo dimers |
| Number of bulge loops | / | 2-oligo bulges |
| Number of internal loops | / | 2-oligo internals |
| | | 0 / 0 |

5' ATT CCT TCC TCT TAG TAT G 3'

| Structural Analysis Summary | | |
|-----------------------------|---|-------------------|
| Number of base runs | / | palindromes |
| Number of hairpin loops | | 0 / 0 |
| Number of dimers | / | 2-oligo dimers |
| Number of bulge loops | / | 2-oligo bulges |
| Number of internal loops | / | 2-oligo internals |
| | | 0 / 0 |

Analysis of cDNA sequence
5' GCT GAA CTT ACT ATG CCC TAC T

| Structural Analysis Summary | | |
|-----------------------------|---|-------------------|
| | / | |
| Number of base runs | / | palindromes |
| Number of hairpin loops | | 0 / 0 |
| Number of dimers | / | 2-oligo dimers |
| Number of bulge loops | / | 2-oligo bulges |
| Number of internal loops | / | 2-oligo internals |
| | | 0 / 0 |

Analysis of "table 24 (PCMB primer 12S-L)" a 20-mer DNA Oligonucleotide (Sense)

5' CCG ATT GAC GCC GAA CTA TG 3'

Oligonucleotide Analysis

| | |
|------------------|-----------------|
| Molecular weight | 6182.1 |
| Tm thermodynamic | 68.1 degrees C |
| Filter Tm | 60.5 degrees C |
| % GC Tm | 70.3 degrees C |
| AT+GC Tm | 62.0 degrees C |
| Absorbance | 5.3 nMol/A260 |
| Absorbance | 32.5 ug/A260 |
| Percent GC | 55.0 % |
| Delta G | -35.6 kCal/Mol |
| Delta H | -159.4 kCal/Mol |
| Delta S | -408.5 eu |
| 3' End Delta G | -4.1 kCal/Mol |

Analysis Parameters

| | |
|--------------------------|--------------|
| Delta G Temperature | 25.0 degrees |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

Analysis of "table 25 (SLMB primer 16S-H)" a 18-mer DNA Oligonucleotide (Antisense)

5' TAC GCA TAA CGG CTC TGG 3'

Oligonucleotide Analysis

| | |
|------------------|-----------------|
| Molecular weight | 5579.7 |
| Tm thermodynamic | 61.4 degrees C |
| Filter Tm | 53.8 degrees C |
| % GC Tm | 66.8 degrees C |
| AT+GC Tm | 56.0 degrees C |
| Absorbance | 5.9 nMol/A260 |
| Absorbance | 32.8 ug/A260 |
| Percent GC | 55.6 % |
| Delta G | -31.0 kcal/Mol |
| Delta H | -143.5 kcal/Mol |
| Delta S | -370.2 eu |
| 3' End Delta G | -7.9 kcal/Mol |

Analysis Parameters

| | |
|--------------------------|----------------|
| Delta G Temperature | 25.0 degrees C |
| Probe concentration | 0.6 pMol |
| Salt concentration | 1000.0 mMol |
| Formamide concentration | 0.0 % |
| 3' End length | 7 bases |
| Run length | 4 bases |
| Palindrome length | 8 bases |
| Hairpin loop stem length | 3 bases |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | / | 2-oligo dimers | 0 / 0 |
| Number of dimers | / | 2-oligo bulges | 0 / 0 |
| Number of bulge loops | / | 2-oligo internals | 0 / 0 |
| Number of internal loops | / | | |

5' CTA CTA CAC CTC AAC TAC ATC T 3'

| Oligonucleotide Analysis | | Analysis Parameters | |
|--------------------------|-----------------|--------------------------|--------------|
| Molecular weight | 6638.4 | Delta G Temperature | 25.0 degrees |
| Tm thermodynamic | 52.4 degrees | Probe concentration | 0.6 pMol |
| Filter Tm | 44.8 degrees | Salt concentration | 1000.0 mMol |
| % GC Tm | 67.6 degrees | Formamide concentration | 0.0 % |
| AT+GC Tm | 62.0 degrees | 3' End length | 7 bases |
| Absorbance | 4.9 nMol/A260 | Run length | 4 bases |
| Absorbance | 32.8 ug/A260 | Palindrome length | 8 bases |
| Percent GC | 40.9 % | Hairpin loop stem length | 3 bases |
| Delta G | -27.6 kCal/Mol | | |
| Delta H | -146.8 kCal/Mol | | |
| Delta S | -392.2 eu | | |
| 3' End Delta G | -3.8 kCal/Mol | | |

| Structural Analysis Summary | | |
|-----------------------------|---|-------------------|
| Number of base runs | / | palindromes |
| Number of hairpin loops | | 0 / 0 |
| Number of dimers | / | 2-oligo dimers |
| Number of bulge loops | / | 2-oligo bulges |
| Number of internal loops | / | 2-oligo internals |
| | | 0 / 0 |

Analysis of "table 27 (SLMB primer 12S-H)" a 19-mer DNA Oligonucleotide (Antisense)

5' CCC ACT CAC TGC TAA CTC C 3'

| Oligonucleotide Analysis | | | Analysis Parameters | | |
|--------------------------|-----------------|--|--------------------------|----------------|--|
| Molecular weight | 5708.8 | | Delta G Temperature | 25.0 degrees C | |
| Tm thermodynamic | 58.4 degrees C | | Probe concentration | 0.6 pMol | |
| Filter Tm | 50.8 degrees C | | Salt concentration | 1000.0 mMol | |
| % GC Tm | 69.7 degrees C | | Formamide concentration | 0.0 % | |
| AT+GC Tm | 60.0 degrees C | | 3' End length | 7 bases | |
| Absorbance | 6.1 nMol/A260 | | Run length | 4 bases | |
| Absorbance | 35.0 ug/A260 | | Palindrome length | 8 bases | |
| Percent GC | 57.9 % | | Hairpin loop stem length | 3 bases | |
| Delta G | -29.4 kCal/Mol | | | | |
| Delta H | -138.5 kCal/Mol | | | | |
| Delta S | -359.0 eu | | | | |
| 3' End Delta G | -5.4 kCal/Mol | | | | |

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | | | 0 |
| Number of dimers | / | 2-oligo dimers | 0 / 0 |
| Number of bulge loops | / | 2-oligo bulges | 0 / 0 |
| Number of internal loops | / | 2-oligo internals | 0 / 0 |

Analysis of "table 28 (SLMB primer 12S-L)" a 21-mer DNA Oligonucleotide (Sense)

5' GGC TAA CTA CAA TCA TCT GCT 3'

Oligonucleotide Analysis

Molecular weight 6445.2
 Tm thermodynamic 58.5 degrees C
 Filter Tm 50.9 degrees C
 % GC Tm 66.9 degrees C
 AT+GC Tm 60.0 degrees C
 Absorbance 5.1 nMol/A260
 Absorbance 32.6 ug/A260
 Percent GC 42.9 %
 Delta G -30.8 kCal/Mol
 Delta H -153.4 kCal/Mol
 Delta S -403.9 eu
 3' End Delta G -6.3 kCal/Mol

Analysis Parameters

Delta G Temperature 25.0 degrees C
 Probe concentration 0.6 pMol
 Salt concentration 1000.0 mMol
 Formamide concentration 0.0 %
 3' End length 7 bases
 Run length 4 bases
 Palindrome length 8 bases
 Hairpin loop stem length 3 bases

Structural Analysis Summary

| | | | |
|--------------------------|---|-------------------|-------|
| Number of base runs | / | palindromes | 0 / 0 |
| Number of hairpin loops | | | 0 |
| Number of dimers | / | 2-oligo dimers | 0 / 0 |
| Number of bulge loops | / | 2-oligo bulges | 0 / 0 |
| Number of internal loops | / | 2-oligo internals | 0 / 0 |